



PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of )  
Haitao Zhang ) For: METHOD AND APPARATUS FOR  
Serial No. 10/650,272 ) IMPROVING CHANNEL  
Filed: August 28, 2003 ) ESTIMATE BASED ON SHORT  
 ) SYNCHRONIZATION CODE  
 ) Group No. 2631

## INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Applicants submit herewith, in accordance with 37 CFR § 1.98, the patents, publications and other information listed on the enclosed Form PTO-1449.

## CERTIFICATE OF MAILING/TRANSMISSION (37 CFR 1.8(a))

I hereby certify that this correspondence is, on the date shown below, being:

## MAILING

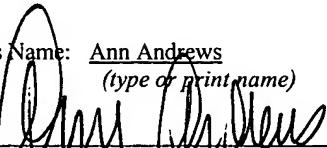
deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date: January 25, 2005

## FACSIMILE

transmitted by facsimile to the Patent and Trademark Office.

Depositor's Name: Ann Andrews  
(type or print name)

Signature: 

The references submitted herewith are those of which Applicants are aware, which they believe may be material to the examination of this application and, with respect to which there may be a duty to disclose in accordance with 37 CFR § 1.56. While the references identified may be material to the examination of this application pursuant to 37 CFR § 1.56, the citation of these references is not intended to constitute an admission that any reference referred to herein is prior art to the invention of this application, unless specifically designated as such. Additionally, the filing of this Information Disclosure Statement shall not be construed to mean that any search has been made or, that if made, such search was complete or exhaustive, or that no other material information as defined in 37 CFR § 1.56 exists.

In accordance with 37 CFR § 1.97(b)(3), this Information Disclosure Statement is being submitted before mailing of the first Office Action on the merits. Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application.

A list of the references is set forth on Form PTO-1449, which is enclosed herewith, along with a copy of each cited foreign reference (copies of U.S. references are not enclosed). Applicants respectfully request that the Examiner return to Applicants a copy of the Form PTO-1449 indicating consideration of the references cited thereon.

Applicants do not believe that any fees are due. If, however, it is determined that fees are owed, Applicants hereby authorize that such fees be charged to Deposit Account No. 17-0026.

Respectfully submitted,

Dated: January 25, 2005

By: 

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FORM PTO-1449 (REV. 7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 020306	SERIAL NO. 10/650,272
INFORMATION DISCLOSURE JAN 31 2005 STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT Haitao Zhang	
DATE MAILED:		FILING DATE August 28, 2003	GROUP 2631

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER								DATE	NAME		CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
A1	5	7	3	7	3	2	7	04/07/98	Ling et al.	370	335	03/29/96		
A2														
A3														
A4														
A5														
A6														

## U.S. PATENT APPLICATION PUBLICATION DOCUMENTS

*EXAMINER INITIAL	PUBLICATION NUMBER								PUB. DATE	NAME		CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
B1														
B2														

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	Ref No	DOCUMENT NUMBER						DATE	COUNTRY	NAME		CLASS	SUB CLASS
	C1												
	C2												
	C3												
	C4												
	C5												

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Page, Etc.)

D1		Teng Jonn Lim; <u>"Bias in CDMA channel estimates with the use of short spreading sequences"</u> ; IEEE 6 <sup>th</sup> Int. Symposium on Spread-Spectrum Tech. and Applications; Vo. 1, Sept. 6, 2000, pg. 288-291
D2		
D3		

EXAMINER DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.